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STATE DOCUMENTS

# PEDESTRIAN ACCIDENTS

## WHO

## WHERE

## WHEN

## WHY

MONTANA STATE LIBRARY
930 East Lyndale Avenue
Helena, Montana 59601

PEDESTRIAN ACCIDENTS — WHO, WHERE, WHEN, WHY

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# PEDESTRIAN ACCIDENTS

PREPARED BY THE

TRAFFIC ENGINEER

MONTANA STATE HIGHWAY COMMISSION

November 1964

# INTRODUCTION

One of the most important problems confronted by all traffic engineers and other officials concerned with traffic safety is the control and safety of pedestrians. This study presents the facts on the "who", "where", "when" and "why" of the pedestrian accidents that occur in Montana.

The data for this study was obtained from all the accident reports submitted to the Montana Highway Patrol for the period from February 1963 to June 1964. A total of 323 pedestrian accidents occurring on city streets, highways and county roads comprise the basis for this report.

It is hoped that this report will provide the reader with a clearer understanding of the problems of pedestrian protection and will assist him in the future planning of pedestrian protection facilities.

## CONCLUSIONS

1. Most pedestrian accidents occur under good weather and roadway conditions during daylight hours.

2. 25% of all pedestrian accidents occur between 3:00 and 5:00 P. M.

3. Young drivers, 14-24 years old, are involved in 35% of all pedestrian accidents, while they account for only 16% of all the licensed drivers in Montana.

4. 92.6% of all the drivers involved in a pedestrian accident lived within the community where the accident occurred.

5. More than two-thirds of all pedestrians involved were male.

6. Pre-school and school age children were involved in 57.7% of all the pedestrian accidents.

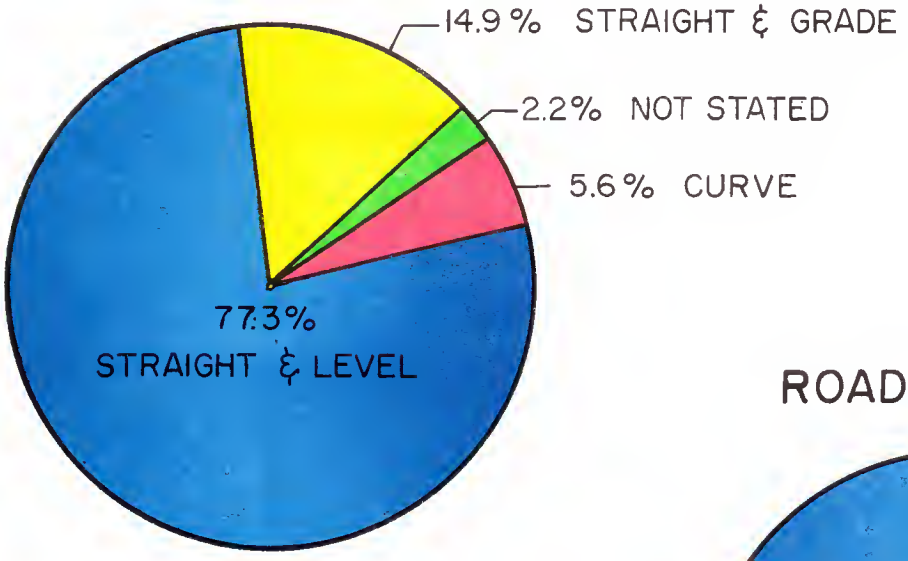
7. Less than 2% of the elementary school age pedestrian accidents occurred in school zones while the majority occurred in residential districts.

8. Traffic signals do not always provide the best pedestrian protection.

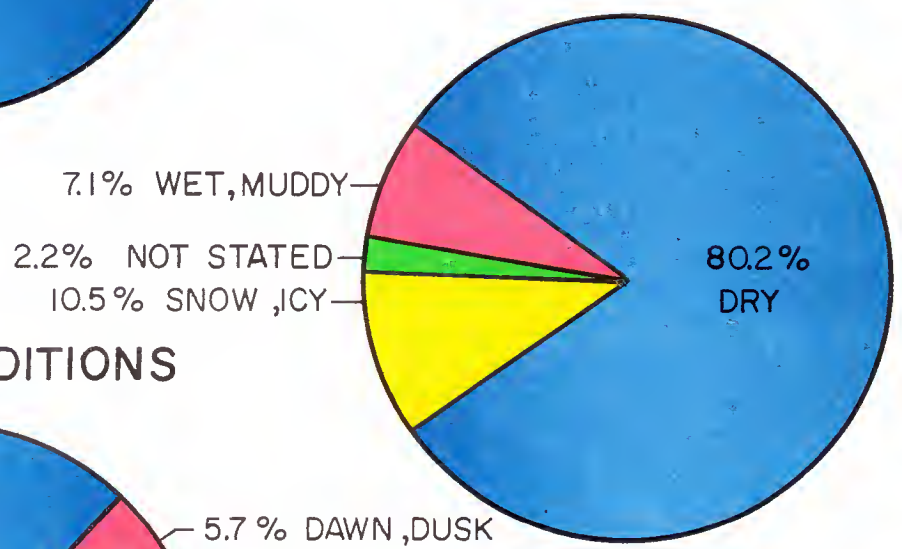
9. Approximately one out of every twelve pedestrians involved was killed.

# What are the Road Conditions When Pedestrian Accidents Occur ?

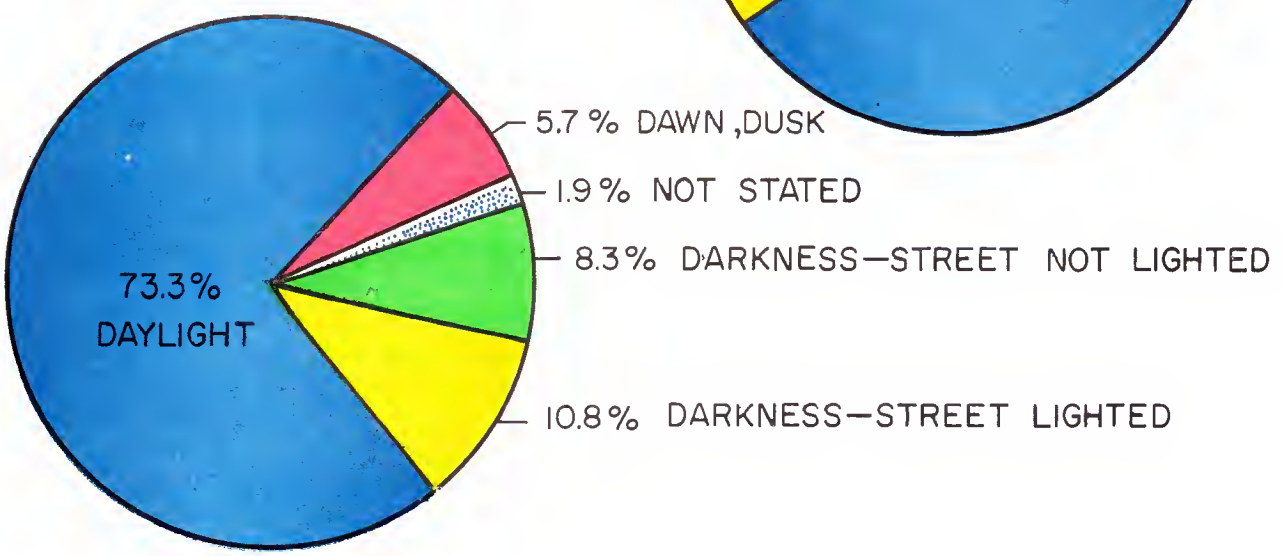
## ALIGNMENT



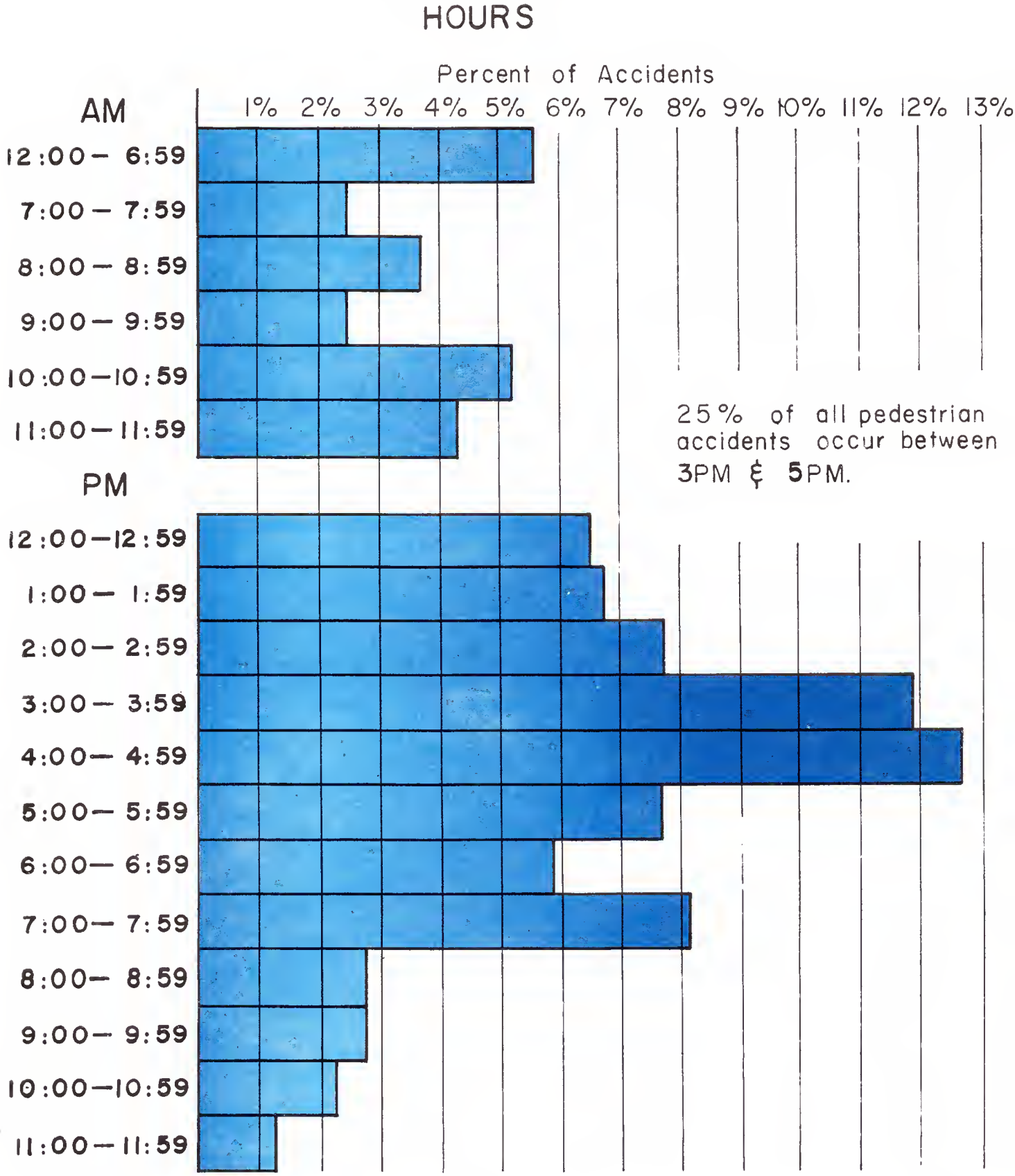

## ROAD SURFACE



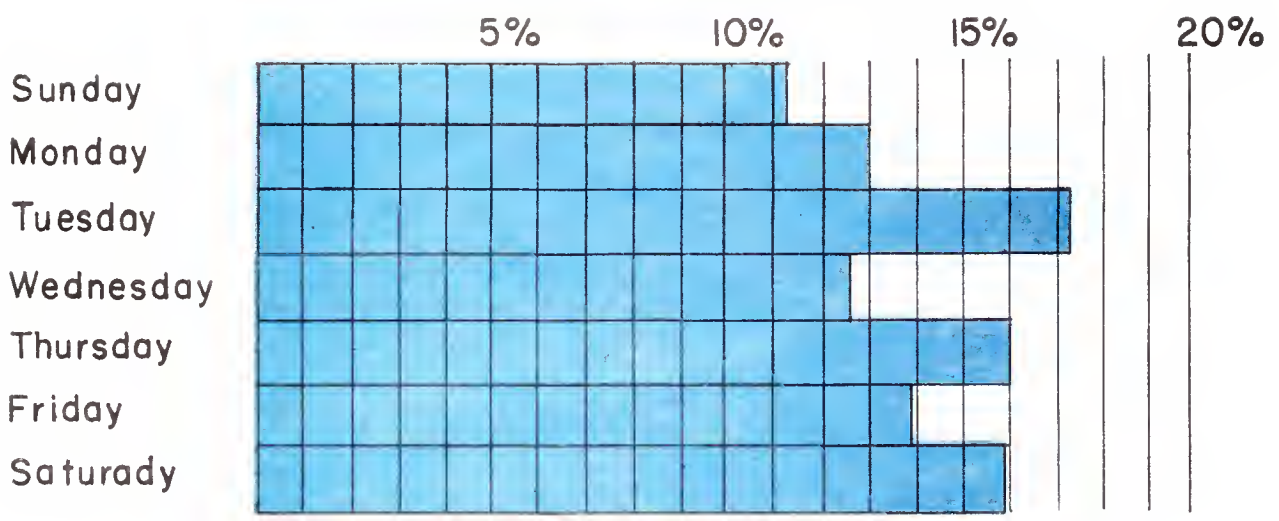

## LIGHT CONDITIONS



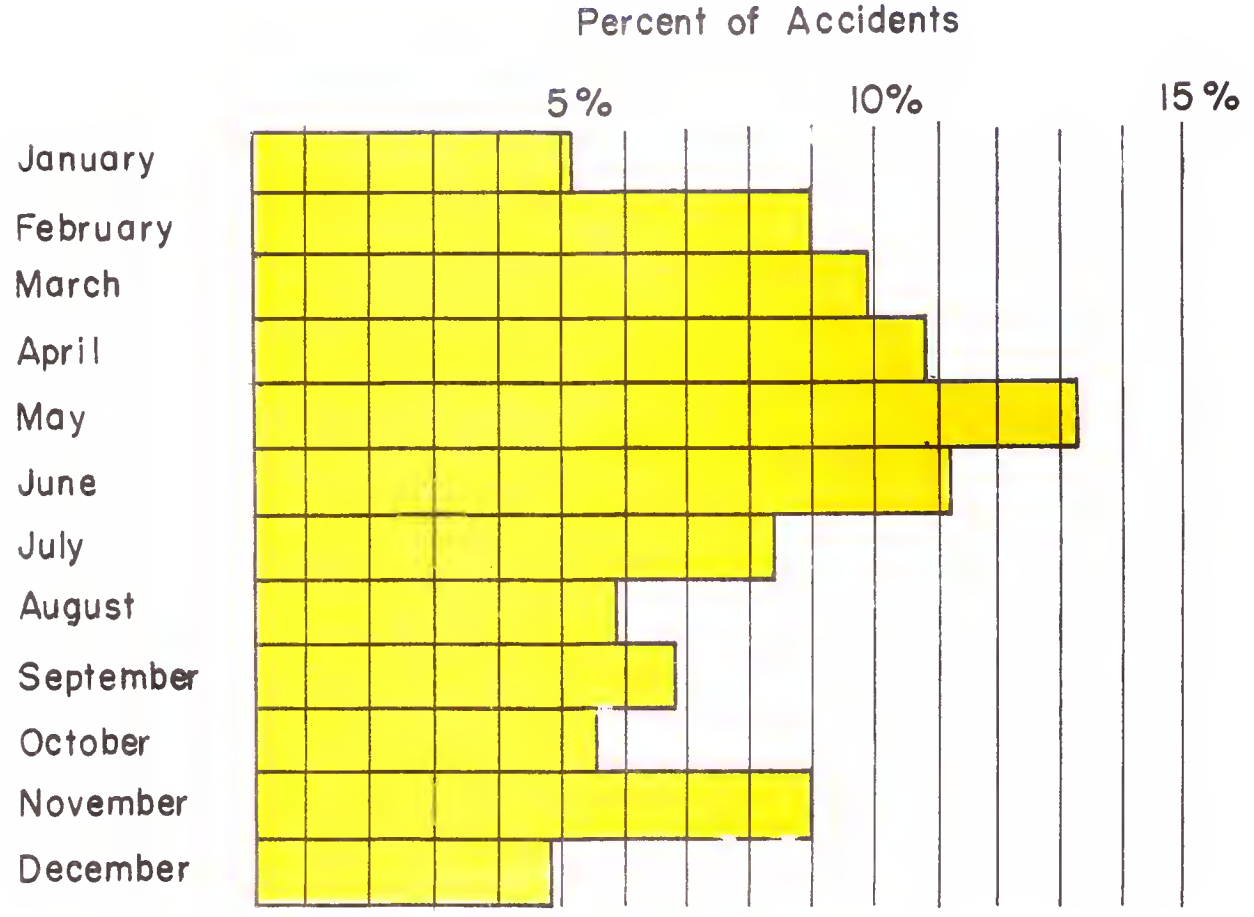
# When do Pedestrian Accidents Occur ?



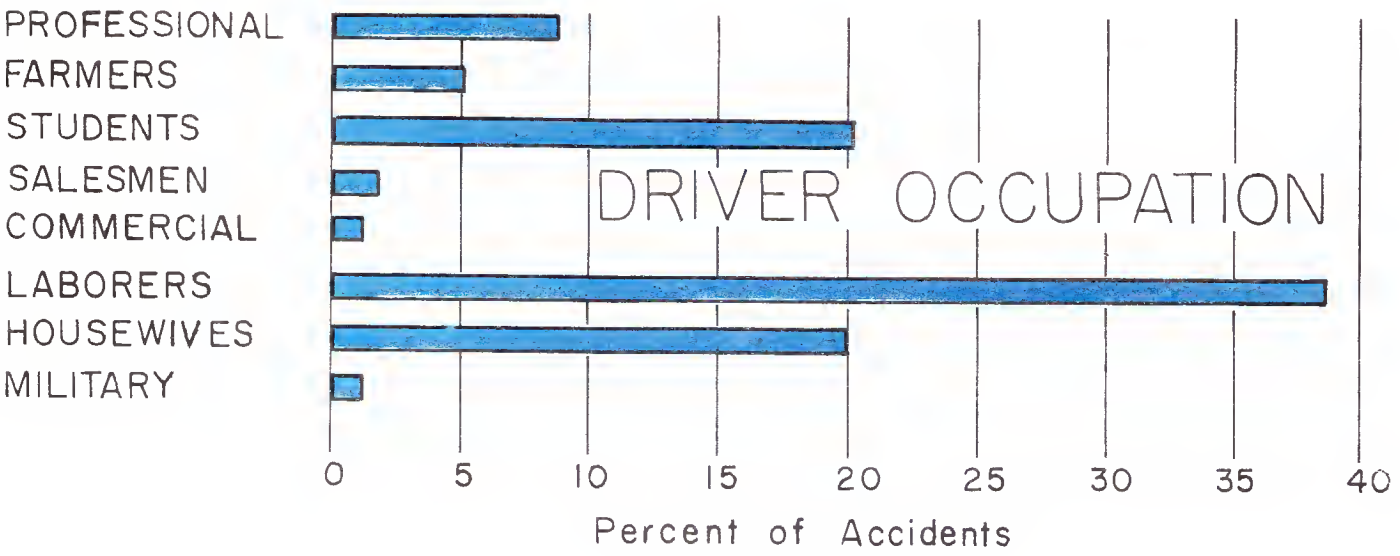
## DAYS

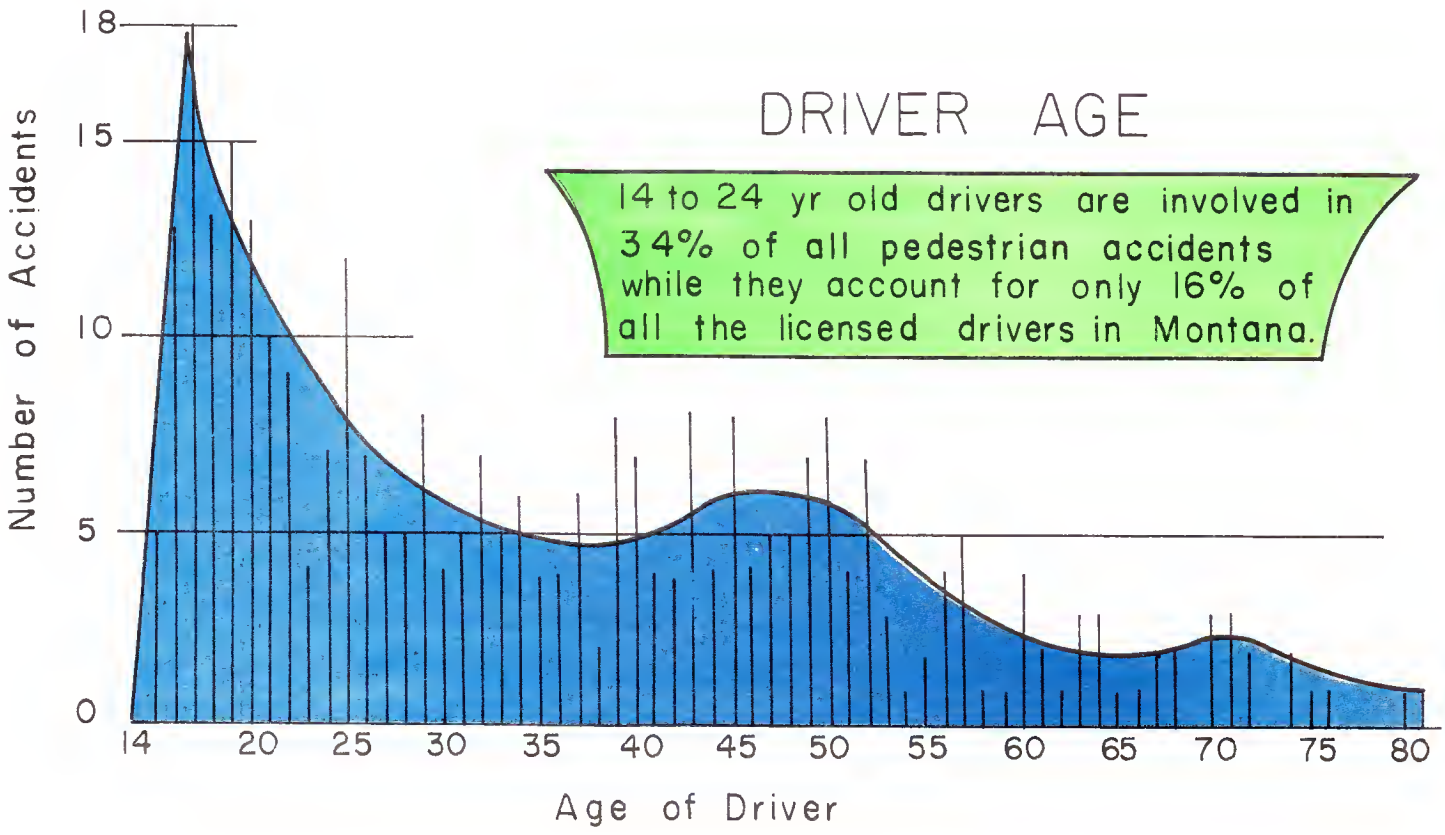

Percent of Accidents
5%
10%
15%
20%
Sunday
Monday
Tuesday
Wednesday
Thursday
Friday
Saturady

## MONTHS

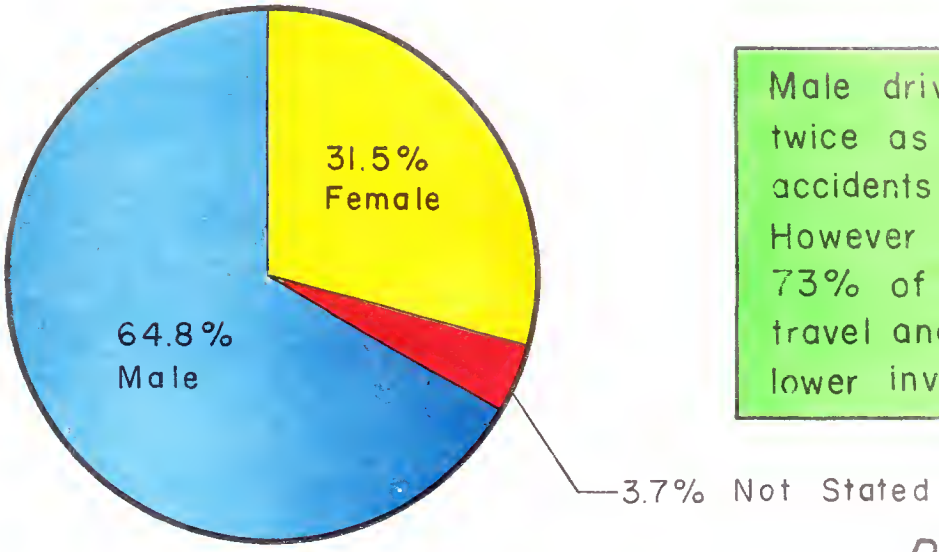

Percent of Accidents
5%
10%
15%
January
February
March
April
May
June
July
August
September
October
November
December

# What Drivers & Vehicles are Most Likely to be Involved in Pedestrian Accidents?



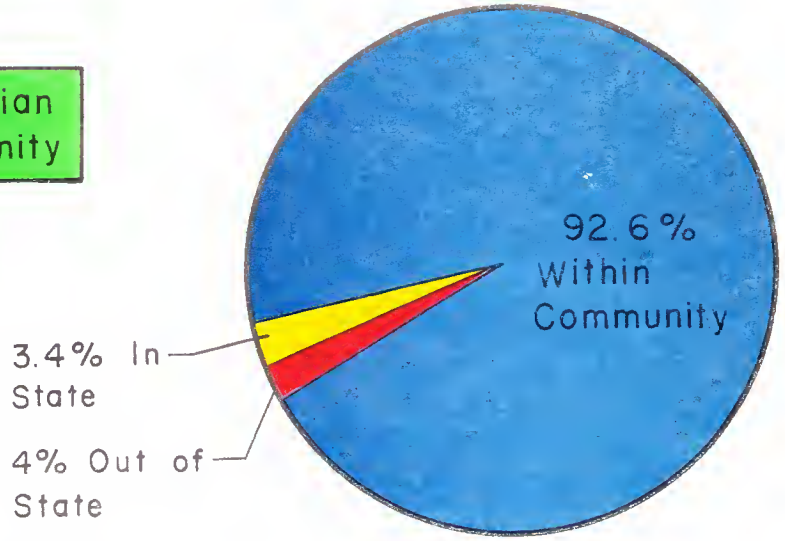
## DRIVERS SEX



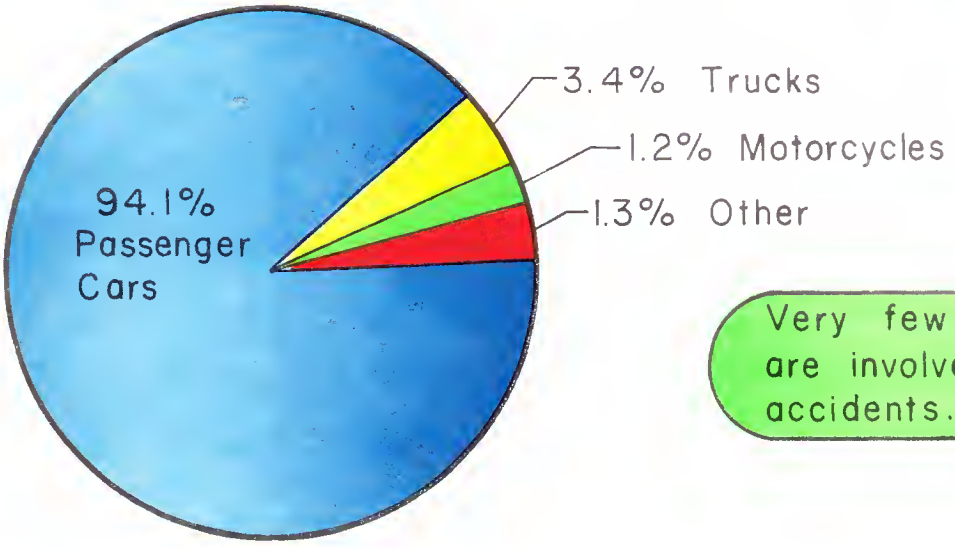

Male drivers are involved in twice as many pedestrian accidents than female drivers. However men drive approximately 73% of the vehicle miles of travel and consequently have a lower involvement rate.

## DRIVERS ORIGIN

Most drivers involved in pedestrian accidents live within the community and it is likely that most of them are familiar with the area.




## TYPE OF VEHICLE

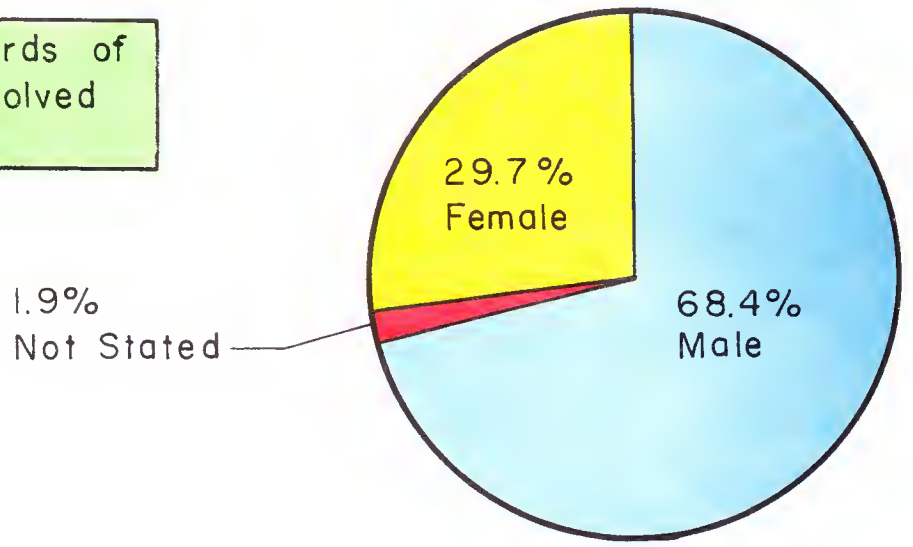



Very few large vehicles are involved in pedestrian accidents.

# What Pedestrians are Involved in Accidents?

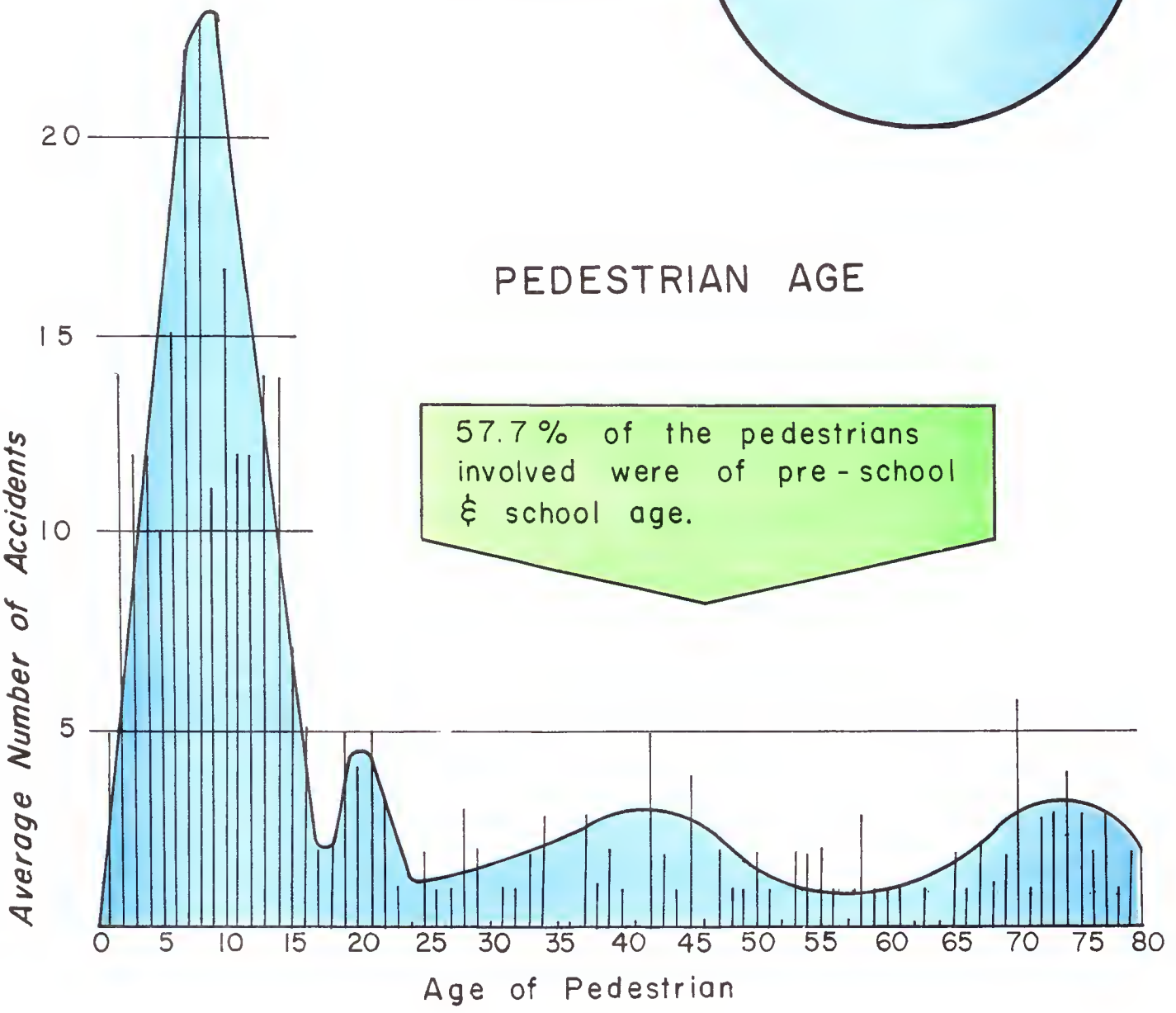
More than two-thirds of the pedestrians involved were male.

## PEDESTRIAN SEX



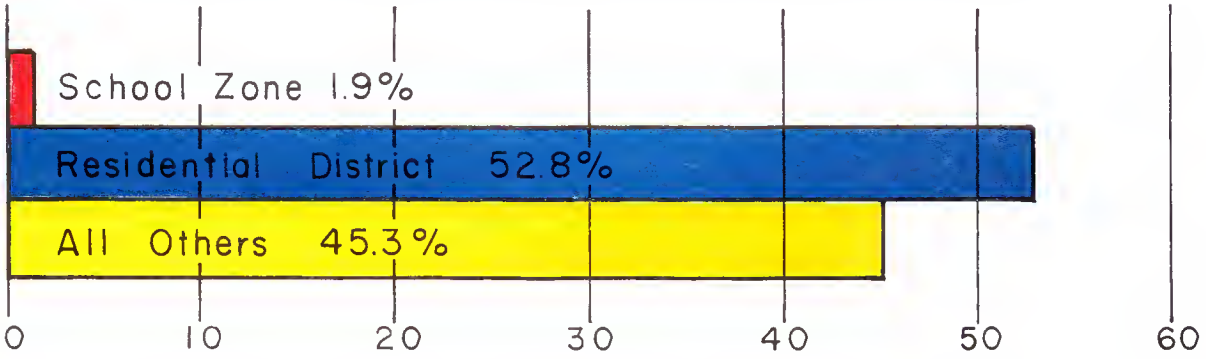

## PEDESTRIAN AGE

57.7% of the pedestrians involved were of pre-school & school age.



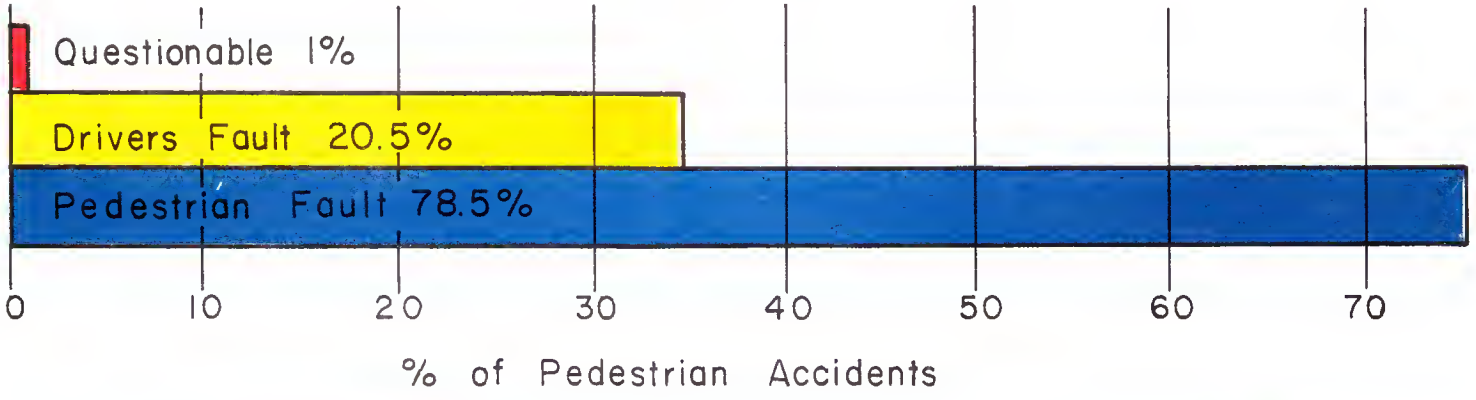
# Elementary School Age Pedestrian Accidents (Ages 5-14)

## CIRCUMSTANCES



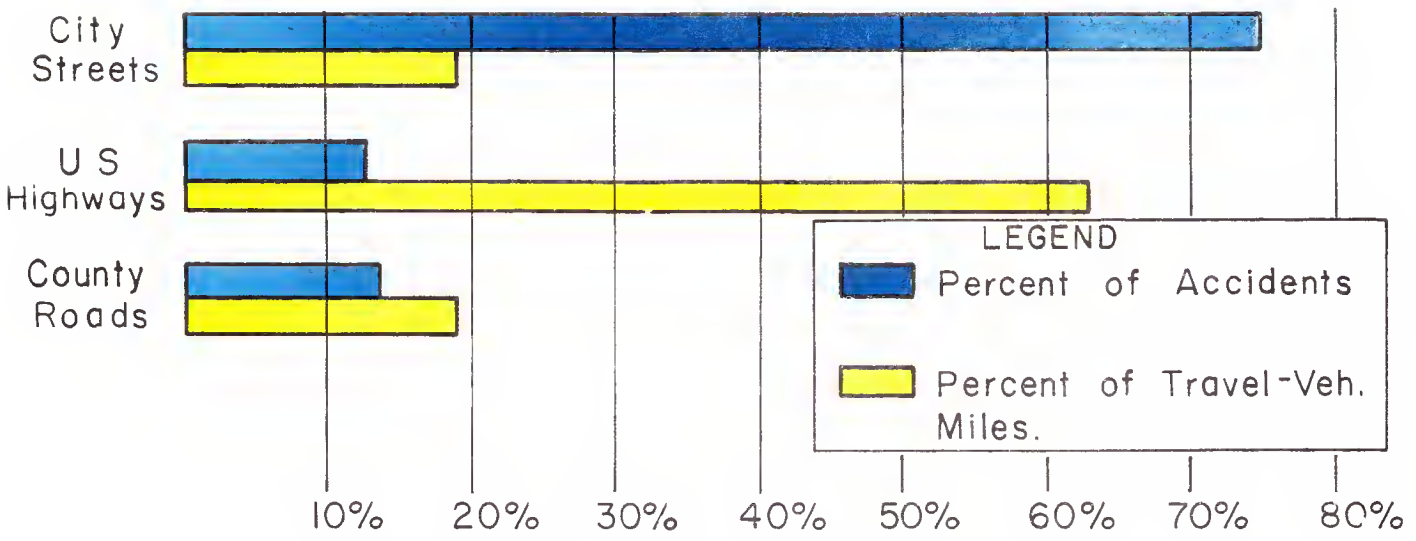

Very few accidents occur in school zones. The majority of the school age pedestrian accidents occur in residential areas.

## FAULT



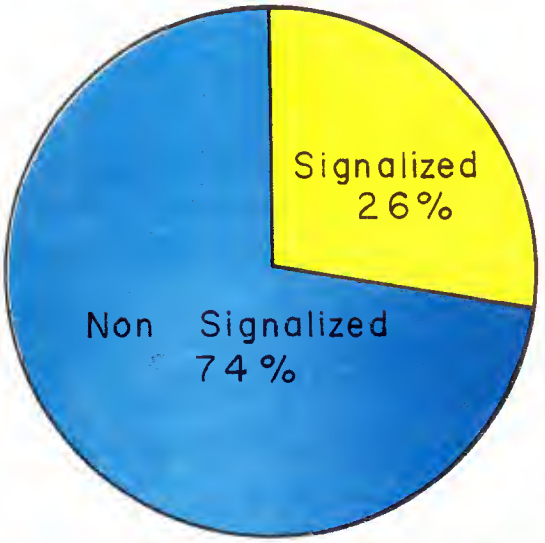

3/4 of the elementary school age pedestrians were at fault.

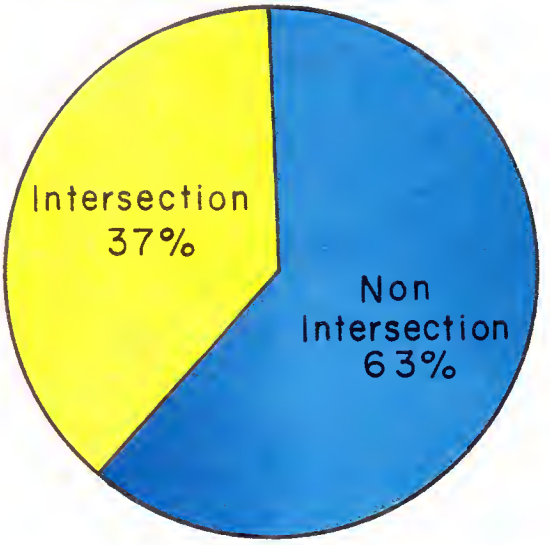
# Where do Most Accidents Occur?




## WHERE THEY OCCURED

## TYPE OF INTERSECTION

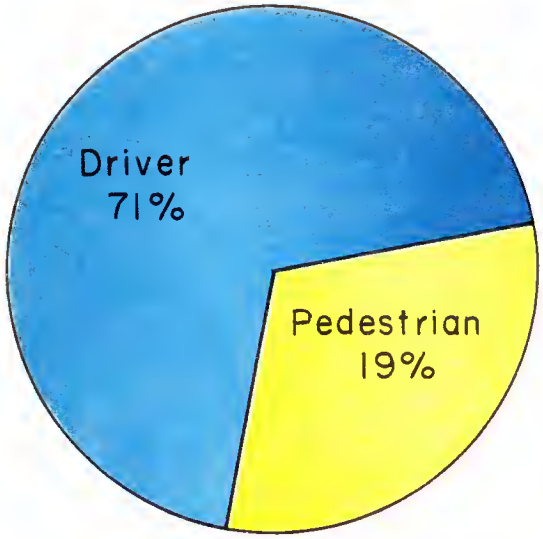



Traffic signals do not always provide the best protection.

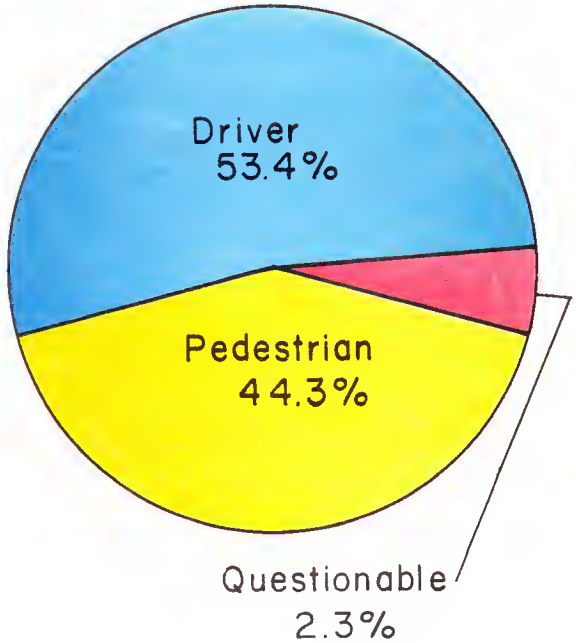
# Who Was at Fault ?

## SIGNALIZED INTERSECTION

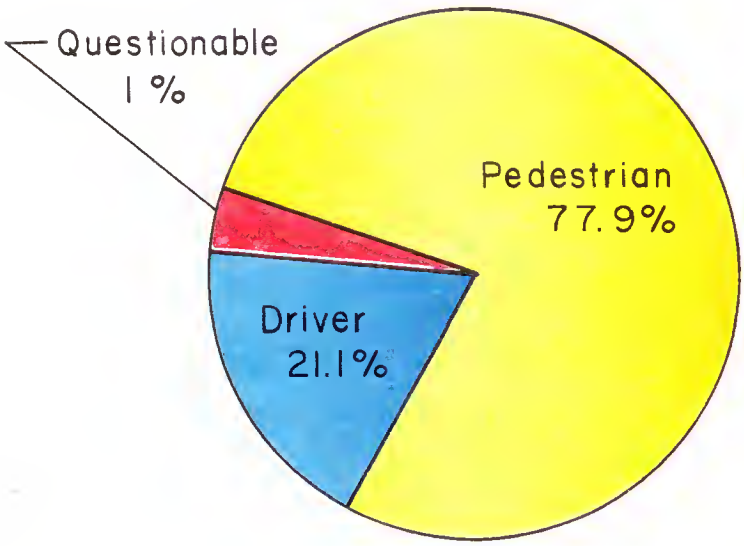



Drivers were at fault more often at intersections with signals than those without.

## NON SIGNALIZED INTERSECTION

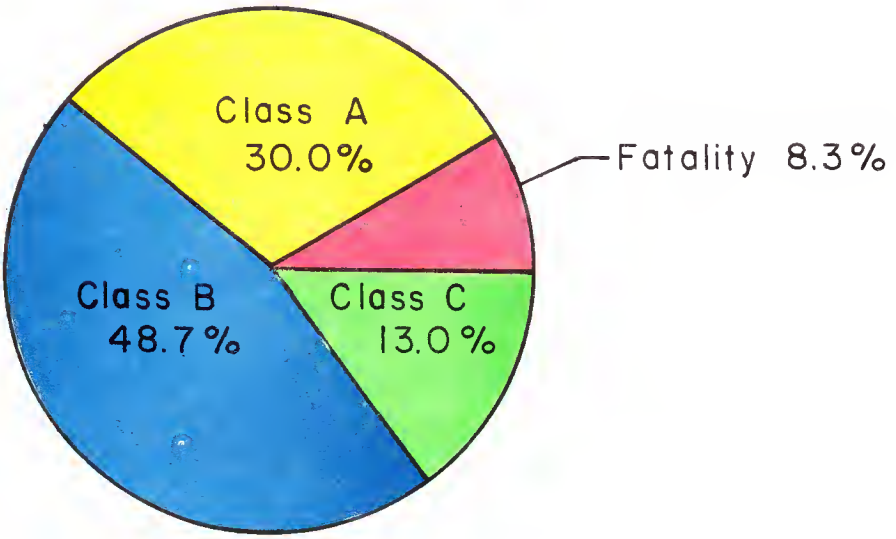



## NON INTERSECTION



# How Severe Were the Accidents

## CLASS OF INJURY




Class A: Bleeding wound, distorted member, or any condition that required victim to be carried from scene.

Class B: Visible injuries such as bruises, abrasions, swelling, limping, or other painful movement.

Class C: Complaint of pain, without visible signs of injury: or momentary unconsciousness.

Almost all of the pedestrians were hurt. 8.3% or one in twelve were killed.

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